# INDEX—AUTHORS


Abboud, Raja T., 568
Abraham, Jerrold L., 945
Adams, G. Kenneth, III, 740
Adkinson, N. Franklin, Jr., 614, 1133
Adler, Kenneth B., 1043
Admunsen, Thor, 519
Agustí-Vidal, Albert, 848
Ainsworth, Sterling K., 1181
Aitken, Moira L., 431
Albert, Richard K., 313
Alex, Charles G., 42
Allen, Bryan W., 1076
Allen, Cheryl L., 437
Altiere, Ralph J., 1159
Anderson, Katherine M., 431
Ando, Masayuki, 83
Angus, Elspeth, 126
Annat, Guy, 999
Ansquer, Jean-Claude, 562
Anthonisen, N. R., 14, 814
Anttinen, Henrik, 88
Appel, David, 727
Araki, Shukuro, 83
Armstrong, Bruce, 994
Armstrong, P. Jane, 357
Aubier, Michel, 1060
Austin, Daniel R., 482
Bai, Tony R., 110
Baier, Horst, 226
Baird, John C., 341
Balbi, Bruno, 78, 1086
Bang, Ki Moon, 830
Banks, David E., 600
Bark, Hylton, 205
Barkman, H. William, Jr., 600
Barnes, Peter J., 252, 1002
Bartlett, Donald, Jr., 46
Bartlett, John G., 212
Bar-Yishay, Ephraim, 245
Bates, Joseph H., 1065
Beardsmore, Caroline S., 245
Becklake, Margaret R., 307
Beeley, J. Michael, 191
Befus, Dean, 757
Begley, Christopher J., 55
Bélanger, Jacques, 843
Belenko, Michael, 866
Belman, Michael J., 667, 672
Benazzi, Robert B., 1124
Ben-Dov, Issachar, 116
Benich, Joseph J., 945
Bergin, Colleen, 541
Bernstein, Peter R., 1127
Bernstein, Robert S., 526
Bertram, John F., 891
Beuscher, Philip, 375
Bhagat, Rajesh G., 173
Biello, Daniel R., 519
Bienenstock, John, 757
Bigby, Barbara G., 1150, 1154
Bigby Timothy D., 515
Block, A. Jay, 506
Bolender, Robert P., 891
Bombí, Josep Antoni, 848
Borovetz, Harvey S., 1006
Boushey, Homer A., 1150, 1154
Bowie, D. M., 21
Brancatisano, Anthony P., 1143
Braude, Stanley, 1002
Breidbart, David, 727
Brendel, John B., 763
Brewster, David, 1019
Brigham, Kenneth L., 55, 913
Brofeldt, Susanne, 1138
Brown, Robert, 184, 626
Brown, Stephen E., 658
Brownell, L. G., 38
Brubaker, Pamela G., 468
Bruce, Margaret, 535
Bryan, A. Charles, 928
Buckner, Carl K., 763
Buist, A. Sonia, 526
Burchfiel, Cecil M., 966
Burki, Nausherwan K., 679
Burnette, Ricky, 908
Burrows, Benjamin, 974, 981
Burwen, Dale R., 626
Butler, Cooley, 302
Butler, William J., 966
Byrd, Patricia K., 1097
Caldwell, Joseph L., 1097
Callahan, Linda M., 1043
Calvayrac, Pierre, 1154
Camilli, Anthony E., 974
Campbell, G. Douglas, 861
Carroll, Mary P., 609
Carvalho, Angelina C. A., 789
Cassizzi-Cprek, Angelica, 292
Castile, Robert G., 184
Catterall, James R., 704
Chanana, Arjun D., 866
Chandler, David B., 461
Chang, Donald, 618
Chang, H. K., 605
Chan-Yeung, Moira, 686
Chapman, Harold A., 437
Chappell, W. Adrian, 144
Charan, Nirmal B., 1110
Cherniack, Reuben M., 97, 104, 264
Cheung, Helen, 797
Chien, Paul, 292
Christopher, Kent A., 104
Chun, Duck, 820
Churg, Andrew, 372
Clapp, Neal K., 1055
Cline, Martha G., 981
Coalson, Jacqueline J., 230
Cohen, Allen B., 349
Colice, Gene L., 279
Collett, Peter W., 1143
Conley, Mary Ellen, 1196
Connolly, Martin J., 600
Cook, William R., 945
Cookson, William, 994
Cooper, J. Allen D., Jr., 321, 488
Cormier, Ivon, 843
Cosio, Manuel G., 126
Costa, Daniel L., 286
Cosulich, Elisabetta, 1086
Cott, Gary R., 875
Coultras, David B., 302
Coyle, Joseph, 1019
Crapo, Robert O., 676
Craven, Donald E., 792
Crawford, Jack T., 1065
Crispen, Ray G., 773
Crosby, John H., 1199
Crouch, Ed., 618
Crow, Julie, 191
Crowley, Joseph J., 1110
Curd, John G., 648
Curtis, Jeffrey L., 515
Cusack, Barry J., 1110
Dal Nogare, Anthony R., 385
D'Alonzo, Gilbert E., 380
Damiani, Guido, 78
Dantzker, David R., 380
Daubenspeck, J. Andrew, 56
Dauber, James H., 855
Davies, Scott F., 144
Davis, Gerald S., 181
Davis, W. Bruce, 218
Deal, E. Chandler, Jr., 809
Dearborn, Dorr G., 535
De Coster, A., 316
De Klerk, Nicholas, 994
de la Monte, Suzanne M., 375
Dempsey, Jerome A., 1163
Denburg, Judah, 757
Denny, Floyd W., 94
Derksen, Frederick J., 357
De Troyer, André, 1115
Devulder, Bernard, 574
De Vuyst, P., 316
De Water, R., 882
Diamond, Louis, 1159
Dijkman, J. H., 882
di Pede, Francesco, 1210
Dixon, Caroline M. S., 252
Dockery, D. W., 834
Dodge, Russell, 981
Dolan, Gerald F., 820
Dollery, Colin T., 252
Dolovich, Jerry, 757
Dorinsky, Paul M., 218
Drew, Robert T., 286
Driedger, Albert A., 797
Druz, Walter S., 32
Dumortier, P., 316
Dunn, Thaddeus L., 261
Durham, S. R., 609
Duroux, Pierre, 562
Duwoos, Henri, 547
Dyer, Bradley, 648
Eckhaus, Michael A., 212
Edelman, Norman H., 26
Eden, E., 455
Edwards, Richard H. T., 667
Efthimiou, John, 667
Ehrhart, M., 173
Einhorn, Schlomo, 205
Eisen, Ellen A., 825
Eisenach, Kathleen D., 1065
Elarth, Anna M., 431

Elias, Jack A., 292
Ellard, David R., 1076
Ellard, Gordon A., 1076
Ellner, J. J., 73
Engel, Ludwig A., 1143
Erkola, Illi, 343
Ernst, Pierre, 307
Escourrou, Pierre, 562
Esposito, Anthony L., 643
Estenne, Marc, 1115
Ettensohn, David B., 1091
Evans, Deborah A., 226
Evans, John N., 1043
Fabbri, Leonardo M., 600
Fagerhol, Magne K., 866
Fairshter, Ronald D., 820
Farber, Harrison W., 173
Farrukh, Imad, 375
Feddersen, C. O., 197
Fera, Tharwat, 568
Fernandez, Enrique, 261
Ferranti, Redento D., 784
Ferris, B. G., 834
Fick, Robert B., Jr., 418
Finer, Neil N., 630
Finucane, Kevin E., 587
Fish, James E., 730
Fitzgerald, R. S., 407
Flick, Michael R., 62
Flynn, John T., 269
Forney, Robert B., 274
Fram, Evan K., 899
Frankel, Lorry R., 170
Franken, C., 882
Fransen, J. A. M., 882
Froment, Muriel, 999
Fujiwara, H., 73
Fuller, Richard W., 252
Fuller, Wynola C., 461
Fulmer, Jack D., 461
Fusco, Mary Jean, 727
Gadek, James E., 218
Gaines, Joseph J., 1199
Gallagher, Charles G., 581
Gangadharam, Pattisapu R.J., 963
Ganjei, Parvin, 226
Garcia, Joe G. N., 444, 450
Garcia, Paula L., 444, 450
Gaudebout, Claude C., 49
Gee, J. Bernard L., 255
Gee, Marlys H., 269
Geiseler, P. Jan, 773
George-Nascimento, Carlos, 353
Gerber, Michael J., 264
Ghebrehiwet, Berhane, 478
Ghezzo, Heberto, 126
Gianotti, Leslie, 380
Gillen, Joseph, 400
Gillespie, Mark N., 1159
Girling, David J., 1076
Giunti, Carlo, 1210
Glancy, John J., 994
Godfrey, Simon, 245
Goldberg, Harold I., 535
Goldman, Steven, 390
Goldsmith, Charles H., 987
Goldstein, Ira M., 62
Gong, Henry, Jr., 343
Goree, Allen, 136
Gosslee, David G., 1055
Gottlieb, John, 375
Gottlieb, Marc S., 298
Graziano, Frank M., 763
Green, James, 144
Greenblatt, Donald W., 1124
Greene, Reginald, 1019
Greenspon, Lee W., 735
Griffith, Bartley P., 1006
Grippi, Michael A., 749
Grosbois, Jean-Marie, 574
Gross, Nicholas J., 725
Grunstein, Michael M., 173
Grymaloski, Martha R., 541
Gurtner, Gail, 375
Hackman, Robert C., 313
Hadley, W. Keith, 515
Haight, James S., 935
Hanifin, J. M., 482
Hansen, James E., 116
Hansen, John A., 261
Hardesty, Robert L., 1006
Hardie, Richard, 635, 639
Harf, Alain, 605
Hart, Sarah, 648
Harver, Andrew, 341
Hatron, Pierre-Yves, 574
Hayek, Zamir, 630
Hendrick, David J., 600
Henry, David P., 274
Henry, Robert, 390
Hensley, Michael J., 558
Henson, Peter M., 197, 875
Hida, Wataru, 367
Higgins, Ian T. T., 966
Higgins, Millicent W., 966
Hillman, David R., 587
Hin-Kwong, Ng, 1076
Hirshman, Carol A., 482
Hirth, Thomas, 763
Hobbs, Michael, 994
Hodgkin, J. E., 14
Hoeffel, John M., 62
Hofflin, Jesse M., 704
Hoffstein, Victor, 935
Hogg, James C., 120, 541, 930, 1171
Holian, Andrij, 292
Hollingshead, Rachel, 1011
Holman, Roy A. E., 667
Holter, John F., 218
Homma, Morio, 367
Honda, Yoshiyuki, 552
Hoop, Bernard, 1024
Hopewell, Philip C., 515
Horio, Sunao, 367
Horn, Jan K., 62
Hotchkiss, Richard S., 1019
Howatt, William F., 966
Howell, Sandra, 407
Howick, Jaime, 744
Hoxie, James A., 1196
Hsu, Yao-Pi, 648
Huchon, Gerard J., 49
Hudgel, David W., 707
Hughes, Janet M., 5, 600, 945, 1002
Hulbert, William, 482
Hull, Sheila I., 932
Hutchins, Grover M., 375
Hyatt, Robert E., 1049, 1120
Ichinose, Masakazu, 367
Ida, Shiroh, 367
Immanuel, Chandra, 1072
Inoue, Hiroshi, 367
Isabey, Daniel, 605
Iseman, Michael D., 264
Israel, Ro[illegible]
Jackson, [illegible]ert M., 461
Jakab, [illegible]orge J., 212
Ja[illegible]aron, 353, 478, 866
[illegible] 316
[illegible] D., 866
Johal, S[illegible]aj, S., 568
Johnson, [illegible]y R., 526
Jones, J. [illegible] 191
Jones, J[illegible]rey [illegible]41
Jones, N. L. [illegible]1
Jones, Richard, 630
Jones, Robert N., 600
Jonsson, Steinn, 136, 932
Kagey-Sobotka, Anne, 1133
Kailasam, S., 1072
Kallay, Michael C., 1124
Kaltreider, H. Benfer, 468, 1097
Kamath, M. Vinayak, 1199
Kamm, Roger D., 626
Kanner, Richard E., 676
Karpel, Jill P., 727
Katsamouris, Asterios N., 1019
Kaufman, Leo, 144
Kay, A. B., 609
Kazemi, Homayoun, 1024
Keller, Jacob B., 966
Kelley, Jason, 68
Kelly, H. William, 744
Kelsen, Steven G., 809
Kennedy, John D., 1124
Kennedy, Thomas P., 375
Kenzora, Joseph L., 519
Keogh, Brendan A., 444, 450
Kerigan, Anthony T., 987
Kern, Richard, 1127
Ketelbant, P., 316
Kettner, Charles, 635, 639
[illegible]y, Richard R., 478
Kil[illegible] Victoria, 792
Killam, Do[illegible]
Killian, Kieran J., 21, 945
Kimball, N. Scott, 1081
Kimura, Hiroshi, [illegible]
King, Gayle A., 55
King, Malcolm, 126
King, Richard J., 230
King, Talmadge E., 97, 104
Klein, Bruce S., 144
Klein, William, 482
Kleinhenz, M. E., 73
Kneussl, Meinhard P., 1024
Knudson, Ronald J., 974, 1210
Knuth, Kurt V., 46
Knuth, Susan L., 46
Kohan, James M., 1124
Kondragunta, Venkata R., 32
Koontz, Franklin, 1011
Kornstein, Michael J., 1196
Korobaeff, Myriam, 707
Kovacs, Elizabeth, J., 68
Kradin, Richard L., 238
Kramps, J. A., 882
Krell, Robert D., 1127
Krell, Willane S., 1120
Kunches, Laureen M., 792

Kryger, M. H., 38
Kunitomo, Fumio, 552
Kuritsky, Joel N., 144
Kuriyama, Takayuki, 552
Kutzman, Raymond S., 286
Kytta, Juha, 343
Lachenbruch, Peter A., 1011
Lalor, Peggy A., 1091
Lam, Stephen, 686
Lange, Louis G., 519
Langleben, David, 789
Lapras, Demetrios, 1019
Larrick, James W., 648
Laube, Beth L., 740
Laughon, Barbara E., 212
Laviolette, Michel, 843
Lawrence, E. Clinton, 136, 298
Leahy, Fergus, 414
Leblanc, Pierre, 21, 945
Lebowitz, Michael D., 938, 1210
Lehmann, James R., 286
Levine, Sanford, 400
Levi-Valensi, Pierre, 547
Levy, Stuart A., 396
Lewis, Michael I., 672
Lewiston, Norman J., 170, 648
Leznoff, Arthur, 935
Liard, Renata, 707
Lichtenberg, Deborah A., 792
Lichtenstein, Lawrence M., 614, 1133
Light, Richard W., 658
Lillington, Glen, 5
Lindenschmidt, Ro C., 274
Lipscomb, Mary F.
Lisboa, Carmen, 17
Lockhart, Alain, 5
Loddo, Robert, 375
Long, Michael, 1019
Lopata, Melvin, 42
Luce, John M., 513
Lucey, Edgar C., 149
Lynch, Robert D., 191
Lyons, C. Richard, 473
Maayan, Chana, 245
MacDonald, A. J., 609
MacGlashan, Donald W., Jr., 614
MacKay, Judith A., 609
Macklem, Peter T., 110
Make, Barry J., 792
Malo, Jean-Luc, 707
Mammosser, M., 173
Mancini, Mary C., 1006
Marchandise, F. X., 316
Margolskee, Dorothy, 515
Marín, Albert, 848
Markin, Gary F., 1037
Marks, John, 414
Marquardt, Diana L., 1105
Marriott, Christopher, 1138
Martin, Helen M., 230
Martin, James G., 110
Martin, R. Russell, 298
Marty, Christine, 1060
Mason, Robert J., 4, 875
Matthay, Richard A., 321, 488
Maunder, Richard J., 313
McArthur, Arthur H., 1055
McCabe, William R., 792
McCamant, Lynn E., 526
McCarthy, Karin M., 238
McEvoy, R. Douglas, 662
McFadden, Deborah, 372
McFadden, E. R., Jr., 723
McGuinness, Gail A., 1011
McManus, Edward J., 141
McMurray, David N., 1081
McMurtry, I. F., 197
McWilliams, Bennie C., Jr., 744
Menendez, Rogelio, 744
Menendez, Roger, 173
Mercer, Gary D., 1110
Merrill, William W., 255, 418, 784
Meyrick, Barbara, 913
Michael, John R., 375
Michael, Philip F., 515
Mihelakos, Panagiotis T., 1019
Milgram, Henry, 648
Miller, Albert, 1210
Miller, Walter T., 431
Minh, Vu-Dinh, 820
Minty, Barbara, 191
Mintzer, Carole L., 1081
Mitchison, D. A., 423
Mizuguchi, Yasuo, 653
Mohammed, Jeannette R., 218
Moqbel, R., 609
Moreno, Rodrigo H., 1171
Morrison, Douglass A., 390
Morrissey, William L., 735
Moses, Vijai K., 773
Moss, Richard B., 648
Motin, Jean, 999
Mullarkey, Michael F., 261
Mullen, B., 541
Mullen, J. Brendan M., 120
Müller, Nestor, 541
Mundie, Thomas G., 1181
Murciano, Daniele, 1060
Murray, John F., 49
Musher, Daniel M., 136, 932
Musk, A. William, 994
Myers, Debra J., 1150, 1154
Myers, Martin G., 1011
Mygind, Niels, 1138
Myllylä, Raili, 88
Naclerio, Robert M., 1133
Naegel, Gary P., 186
Narayana, A. S. L., 1072
Neff, Thomas A., 962
Nelson, Kenrad E., 773
Nelson, Steve, 212
Neuhoff, Heinz, 1029
Neukirch, Françoise, 707
Newman, Stephen L., 707
Newth, Christopher, J. L., 49
Nichols, David M., 541
Niederman, Michael S., 255, 784
Nimmagadda, Indira, 1133
Nisperos, Brenda, 261
Nolan, Charles M., 431
Nolop, Keith B., 1002
Norman, Philip S., 730, 740, 1133
Nunn, Andrew J., 423, 1076
Ogletree, Martin L., 55
Ohwada, Kazuo, 367
Okita, Shinya, 552
Olchowski, J., 418
Oliver, L. Christine, 825
Olson, Daniel B., 1011
Olson, Leslie G., 558
Önal, Ergün, 42
Osborne, Salma, 541
Otsuka, Hirokuni, 757
Ozawa, Takayuki, 362, 805
Pack, Allan I., 749
Palevsky, Harold I., 749
Palmer, Lucy B., 784
Paoletti, Paolo, 1210
Pappagianopoulos, Paul, 1024
Paradis, Irvin L., 855
Paré, Peter D., 120, 541, 930, 1171
Parhami, Nourllah, 450
Pariente, René, 1060
Parisi, Richard A., 26
Parra, Saundra C., 908
Parson, Polly E., 875
Parzyck, Thomas, 302
Pasterkamp, Hans, 414
Patterson, Carolyn E., 274
Patterson, Roy, 1127
Pattishall, Edward N., 94
Pearl, Ronald G., 170
Pedinielli, Jean-Louis, 547
Peliowski, Abraham, 630
Pelletier, A., 173
Pengelly, L. David, 987
Percival, Carlisle, 999
Perez, Julio E., 519
Perkowski, Sandra Z., 269
Peters, Stephen P., 614, 1133
Peters, Steve G., 1049
Petty, Thomas L., 132, 343
Phair, Dilshad K., 26
Pietra, G. G., 1196
Pinckard, R. Neal, 614
Piquet, Jacques, 605
Pistelli, Giuseppe, 1211
Pitchenik, Arthur E., 226
Poe, Robert H., 1124
Polianski, Juliette M., 49
Polomski, Lydia M., 255
Prentice, Louise, 587
Price, H. Preston, 908
Proud, David, 1133
Pryce, D. Paul, 191
Punt, Jennifer A., 635, 639
Putman, Margaret, 298
Quinones, Francisco, 618
Rabin, Bruce S., 855
Racineaux, Jean-Louis, 547
Raff, Hershell, 396
Ramirez, German, 279
Randell, Scott H., 899
Rankin, John A., 186
Ravazzoni, Cesare, 78, 1086
Reading, James C., 830
Readman, Ann S., 1138
Reid, Lynne M., 789
Remington, Jack S., 704
Reynolds, Herbert Y., 186, 255, 418, 784
Rezler, Agnes G., 937
Rhoades, Rodney A., 274
Richter, Anna, 568
Riff, Eduardo, 313
Rinaldo, Jean E., 343, 1006
Risso, Angela, 1086
Roberts, Norbert J., Jr., 1091
Robinson, N. Edward, 357

ROCA, JOSEP, 848
ROCK, PETER C., 375
RODRIGUEZ-ROISIN, ROBERT, 848
ROM, WILLIAM N., 830
ROSENBERG, STEVEN, 353
ROSSI, GIOVANNI A., 78, 1086
ROSSMAN, MILTON D., 292
ROUSSOS, CH., 407
ROYSTON, DAVID, 1002
RUBIN, EBEN, 226
RUBIN, LEWIS J., 385
RUNYON, ERNEST H., 173
RUSSELL, M. DAVID, 1069
RYAN, C. ANTHONY, 630
SACCO, OLIVIERO, 78, 1086
SAETTA, MARINA, 126
SAHEBJAMI, HAMID, 769
ST. JOHN, WALTER M., 46
SAKATA, TETSUNORI, 83
SAMET, JONATHAN M., 302
SANDHAUS, ROBERT A., 875
SANTIAGO, TEODORO V., 26
SARMA, G. RAGHUPATI, 1072
SAROSI, GEORGE A., 144
SASAKI, HIDETADA, 593
SATAKE, TATSUO, 362, 805
SAUNDERS, NICHOLAS A., 558
SAUTEGEAU, A., 173
SAVOLAINEN, EEVA-RIITTA, 88
SBARBARO, JOHN A., 173
SCARDELLA, ANTHONY T., 26
SCHARF, STEVEN M., 205
SCHLEIMER, ROBERT P., 614
SCHMIDT, FRANZ, 1029
SCHNEEBERGER, EVELINE E., 238
SCHRAUFNAGEL, DEAN E., 937
SCHREIBER, ALAN D., 292
SCHUSTER, DANIEL P., 519, 1037
SCHWARZ, MARVIN I., 97, 104
SEEGER, WERNER, 1029
SEKIZAWA, KIYOSHISA, 593
SELIG, WILLIAM, 274
SENG-KEE, TEO, 1076
SHARP, DAVID J., 662
SHARP, JOHN T., 32
SHAW, R. J., 609
SHELLITO, JUDD E., 468
SHEN, ANTHONY S., 264
SHENVI, ASHOK B., 635, 639
SHEPPARD, DEAN, 515, 1154
SHIMAZU, KAZUYOSHI, 83
SHIMIZU, YOSHIO, 593
SHINER, ROBERT J., 126
SIBBALD, WILLIAM J., 797
SIECK, GARY C., 672
SILVERS, G. WAYNE, 132
SIMONNEAU, GERALD, 562
SITRIN, ROBERT G., 468
SIU-LUNG, CHAN, 1076
SKATRUD, JAMES S., 1163
SLOCOMBE, RONALD F., 357
SLUTSKY, ARTHUR S., 626, 928
SMITH, DAVID W., 170
SMITH, LEWIS J., 1127
SMYTH, R. J., 173
SNAPPER, JAMES R., 351
SNIDER, GORDON L., 149, 942
SODA, KYOSEI, 83
SORENSEN, C. HJORTH, 1138
SOSKEL, NORMAN T., 635, 639
SPEIZER, F. E., 834
SPENGLER, J. D., 834
SPIRO, STEPHEN G., 667
SPRINCE, NANCY L., 825
SPRINGMEYER, STEVEN C., 313
SQUIER, SUSAN U., 418
STAATS, BRUCE A., 1120
STANFORD, RAY E., 97, 104, 132
STANSBURY, DAVID W., 658
STONE, O. LEE, 437
STONE, PHILLIP J., 149
STRAM, D. O., 834
STROPE, GERALD L., 94
SUE, DARRYL Y., 116
SUGAHARA, KAZUHIRO, 875
SUGIYAMA, SATORU, 362, 805
SUMMER, WARREN R., 212
SUMMERS, E., 21
SUPINSKI, GERALD S., 809
SUTTORP, NORBERT, 1029
SWEENEY, E. STEVEN, 302
SWIFT, DAVID L., 740
SZAREK, JOHN L., 1159
TAGER, IRA B., 959
TAHAMONT, MARIA V., 269
TAKAGI, KENZO, 362, 805
TAKARO, TIMOTHY, 908
TAKI, FUMIO, 362, 805
TAKISHIMA, TAMOTSU, 367, 593
TAL, ASHER, 414
TANIGUCHI, HIROYUKI, 805
TARASIUK, ARIEL, 205
TATSUMI, KOICHIRO, 552
TEAGUE, ROBERT B., 298
TENHOLDER, MICHAEL F., 1069
TENNEY, S. MARSH, 341
TERHO, ERKKI O., 88
TETZLAFF, CHRISTINE L., 1081
THOMAS, DUNCAN, 307
THOMAS, PATRICIA S., 261
THORNTON, ANDREW T., 662
THORNTON, JOHN C., 1210
TIONG-HAR, TAN, 1076
TOEWS, GALEN B., 473
TOGIAS, N. FRANKLIN, 1133
TOJIMA, HIROKAZU, 552
TOMASHEFSKI, JOSEPH F., JR., 535
TONNEL, ANDRÉ BERNARD, 574
TORINGTON, KENNETH G., 1069
TORRES, ANTONIO, 226
TRULOCK, ELBERT P., 519
TRYKA, A. FRANCINE, 1055
TURINO, G. M., 455
UDOU, TAKEZO, 653
UNDEM, BRADLEY J., 763
URYNIAK, THOMAS J., 173
VANDE WEYER, R., 316
VAN MUIJEN, G. N. P., 882
VASQUEZ, PATRICIA, 820
VENKATESAN, P., 1072
VERBURG, KENNETH M., 274
VESTAL, ROBERT E., 1110
VIALE, JEAN-PAUL, 999
VIEGI, GIOVANNI, 1210
VIIRES, MAIMA, 1060
VINCKEN, WALTER, 1115
VOELKEL, N. F., 197, 1186
VOISIN, CYR, 574
VOLLMER, WILLIAM M., 526
WAGNER, HENRY N., JR., 740
WALDRON, JAMES A., 97, 104
WALKER, LINDA L., 1105
WALLACE, RICHARD J., JR., 932
WALLAERT, BENOÎT, 574
WALLIS, R. S., 73
WALSH, G. M., 609
WANG, NAI-SAN, 126
WARE, J. H., 834
WARSHAWSKI, FRANK J., 797
WASSERMAN, KARLMAN, 116
WASSERMAN, MARTIN A., 269
WASSERMAN, STEPHEN I., 1105
WATANABE, SHOHEI, 552
WATANABE, SUETARO, 635, 639
WATSON, JOHN W., 626
WATTERS, LESLIE C., 97, 104
WEBB, D. R., 261
WEILAND, JEFFREY E., 218
WEILL, HANS, 5, 600, 945
WEISER, PHILIP, 400
WEISS, SCOTT T., 1
WEISSLER, JONATHAN, 473
WEITZENBLUM, EMMANUEL, 173, 547
WEST, P., 38
WETSTEIN, LEWIS, 707
WHITE, DOROTHY A., 321, 488
WHITE, GEORGE L., 830
WIGGINS, CHARLES L., 302
WIGGS, BARRY R., 120, 372, 930
WILLCOX, MARY L., 104
WILLEMS, L. N. A., 882
WILLIAMS, JAMES E., 144
WILLIAMSON, JOSEPH R., 519
WILSON, ARCHIE F., 820
WILSON, ROGER S., 1019
WINTER, VICKI T., 230
WITSCHI, HANSPETER, 1055
WOLVEN, RICHARD G., 444
WOOD, STEPHEN D., 830
WOODS, DONALD E., 861
WRIGHT, E. C., 14, 814
WRIGHT, JOANNE L., 120, 372, 930
XAUBET, ANTONI, 848
YAMADA, TAKESHI, 653
YERNAULT, J. C., 316
YOSHIDA, KAZUKO, 83
YOUNES, MAGDY, 581
YOUNG, STEPHEN L., 899
YUGUCHI, YASUTOSHI, 552
ZOCCHI, ELENA, 78

Acetylcholine
changes in bronchial reactivity to, with type C influenza virus infection in dogs, 367
-induced pulmonary vasodilation in lung vascular injury, 197
Acidosis, compensated metabolic, effects of aminophylline and salbutamol on diaphragmatic force during, 407
Acquired immunodeficiency syndrome
pathology and treatment of interstitial pneumonitis in two infants with (case report), 1196
sputum
examination for diagnosis of *Pneumocystic carinii* pneumonia in, 226
induction in (editorial), 513
usefulness of induced sputum in diagnosis of *Pneumocystis carinii* pneumonia in patients with, 515
Acrolein, altered lung function and structure in rat after subchronic exposure to, 286
Adenosine and theophylline, comparative effects of, on respiratory skeletal and smooth muscle, 809
Adult respiratory distress syndrome
abnormal neutrophil-pulmonary interaction in, and assessment of pulmonary neutrophil kinetics with indium-111 neutrophil scintigraphy, 792
assessment of lung injury in, using multiple indicator dilution curves, 1006
comparison of lung vascular and epithelial permeability indices in, 1002
indicators of risk, course, and prognosis in (correspondence), 343
lung neutrophils in, 218
occurrence of, in neutrophenic patients (case report), 313
oxygen delivery and uptake in, 999
Aerosol, saline, effect of bronchial obstruction on central airway deposition of, in patients with asthma, 740
Air, cold, dry, local generation of sulfidopeptide leukotrienes upon nasal provocation with, 1133
Air-flow obstruction
chronic, single dose of almitrine improves pulmonary gas exchange during exercise in patients with, 562
COPD, a disease of, 725
Airway(s)
central and peripheral, ultrastructural localization of bronchial antileukoprotease in, 882
deposition, central, of saline aerosol in patients with asthma, effect of bronchial obstruction on, 740
dimension, upper, and movements in bronchial asthma, 1143
disease, small, and radial traction in excised human lungs, 132
feline, reflex activation of nonadrenergic, noncholinergic inhibitory nervous system in, 1159
hyperexcitability in asthmatics (correspondence), 707
hyperreactivity, increased metachromatic cells and lymphocytes in bronchoalveolar lavage fluid of dogs with, 482
narrowing, mechanics of (pulmonary perspective), 1171
obstruction, can thoracic gas volume be measured in infants with, 245
occlusion, upper, during sleep in patients with Cheyne-Stokes respiration, 42
reactivity, nonspecific, in cigarette smokers, 120
responses
to aerosolized methacholine and citric acid in ponies with recurrent airway obstruction (heaves), 357
asthmatic, to muscarinic, histaminergic, and allergenic stimuli, effects of verapamil on, 730
to inhaled leukotriene $D_4$, characterization of, in normal subjects, 1127
site of, and overall airway hyperresponsiveness, relationship between, in asthma, 593
responsiveness to histamine and methacholine, prostaglandin $D_2$ potentiates, 252
Alcohol, differential depression of hypoglossal nerve activity by, 46
Allergen provocations, biochemical analysis of nasal secretion induced by, 1138
Almitrine, single dose of, improves pulmonary gas exchange during exercise in patients with chronic air-flow obstruction, 562
Alpha-1-protease inhibitor
clinical usefulness of different forms of (editorial), 349
genetically engineered, mutant human, is more resistant than normal inhibitor to oxidative inactivation by chemical, enzymes, cells, and cigarette smoke, 353
Aluminum smelter, respiratory survey of North American Indian children living in proximity to, 305
Alveolar (*See also* Macrophages, alveolar)
fibrin turnover, abnormalities in pathways of, among patients with interstitial lung disease, 437
lining material and antibacterial defenses, 136
oxygen tension and single-breath CO diffusing capacity, relationship between, 676
septal connective tissue gaps, zonal distribution of, in adult lungs, 908
wall, cellular alterations in, in bleomycin-induced pulmonary fibrosis in rats, 1043
Alveolitis and subsequent changes in lung function, relationship between, 574
American Thoracic Society
Position paper on skills of health team involved in out-of-hospital care for patients with COPD, 948
Statement on evaluation of impairment/disability secondary to respiratory disorders, 1205
Aminobutyric acid, gamma, reversible depression of ventilation and cardiovascular function by ventriculocisternal perfusion with, in dogs, 1024
Aminoglycoside-acetyltransferase, presence of, in clinical isolate of *M. fortuitum*, 653
Aminophylline
effects of, on diaphragmatic force during compensated metabolic acidosis, 407
and fatigue of sternomastoid muscle, 672
intravenously administered, and inhaled isoproterenol, comparison of effects of, on normal airways, 744
Anaerobic bacterial challenge, characterization of pulmonary inflammatory response to, 212
Animal model
of asthma, large (editorial), 351
diagnosis of gram-negative bacillary pneumonia in, using competitive ELISA technique to detect presence of lipid A, 861
Antibody(ies)
activities, different classes of, to *Trichosporon cutaneum* antigen in summer-type hypersensitivity pneumonitis by ELISA, 83
comparison of enzyme immunoassay immunodiffusion, and complement fixation tests in detecting, in serum to A antigen of *Blastomyces dermatitidis*, 144
-forming cell responses to sheep erythrocytes, primary, capacity of normal murine alveolar macrophages to function as antigen-presenting cells for initiation of, 1097
monoclonal, ultrastructural localization of bronchial antileukoprotease in central and peripheral airways by gold-labeling technique using, 882
to *Pseudomonas aeruginosa* lipopolysaccharide, systemic im-

mune complexes, complement activation, and exotoxin A, association of, with mortality in cystic fibrosis, 648
Antigen(s)
A of *Blastomyces dermatitidis*, comparison of enzyme immunoassay, immunodiffusion, and complement fixation tests in detecting antibody in serum to, 144
HLA-DR, role of, in alveolar macrophage stimulation of T-cell proliferation in autologous mixed lymphocyte reactions, 78
-induced bronchoconstriction, effect of, on phrenic nerve activity, 749
-presenting cells, capacity of normal murine alveolar macrophages to function as, for initiation of primary antibody-forming cell responses to sheep erythrocytes, 1097
*Trichosporon cutaneum*, different classes of antibody activities to, in summer-type hypersensitivity pneumonitis by ELISA, 83
Antileukoprotease, bronchial, ultrastructural localization of, in central and peripheral airways by gold-labeling technique using monoclonal antibodies, 882
Apnea
obstructive sleep
diaphragmatic responses to body position changes in obese patients with, 32
effects of posture on, 662
index: need for improving description of respiratory variability during sleep (correspondence), 707
reversible obstructive sleep, caused by occupational exposure to guar gum dust (case report), 935
threshold, sleep-induced, and its consequences (pulmonary perspective), 1163
Arachidonic acid metabolites, influence of steroidal and nonsteroidal anti-inflammatory agents on accumulation of, in plasma and lung lymph after endotoxemia in awake sheep, 55
Arthritis, rheumatoid, bronchoalveolar lavage fluid evaluation in, 450
Asbestos
clearance, smoking inhibits, 372
exposure and quantitative assessment of risk, 5 (correspondence), 945
correlation of bronchoalveolar lavage and clinical and functional findings in, 848
natural history of, in former crocidolite workers of Wittenoom Gorge, 994
Ascorbate modulates antibacterial mechanisms in experimental pneumococcal pneumonia, 643
Asian refugees, Southeast, active tuberculosis after isoniazid chemoprophylaxis of, 431
Aspirin-sensitive asthma, association of, with HLA-DQw2, 261
Asthma
acute severe, pattern of breathing in, 587
airway
hyperexcitability in (correspondence), 707
responses to muscarinic, histaminergic, and allergenic stimuli in, effects of verapamil on, 730
aspirin-sensitive, association of, with HLA-DQw2, 261
bronchial, upper airway dimensions and movements in, 1143
comparison of atropine sulfate and metaproterenol sulfate in emergency treatment of, 727
critical appraisal of therapy of (editorial), 723
dose-response effect of methacholine in subjects with, 593
effect of
bronchial obstruction on central airway deposition of saline aerosol in patients with, 740
topical ophthalmic instillation of timolol and betaxolol on lung function in subjects with, 264
emphysema, and chronic bronchitis diagnoses, comparisons of, in population sample, 981
exercise-induced, enhancement of leukocyte cytotoxicity after, 609
experimental, role of phospholipase in reduced beta-adrenergic responsiveness in, 362
inhibition of $SO_2$-induced bronchoconstriction in subjects with, by cromolyn is dose dependent, 1150
large animal models of (editorial), 351
occupational (state of art), 686
relationship between respiratory muscle strength, nutritional status, and lung volume in, 414
Atropine sulfate and metaproterenol sulfate, comparison of, in emergency treatment of asthma, 727
Bacille Calmette-Guérin vaccination, effects of, on alveolar macrophage function in pulmonary tuberculosis, 1081
Bactec system
and bronchoscopy for diagnosis of tuberculosis (editorial), 962
impact of, on ten-year experience with fiberoptic bronchoscopy for mycobacterial isolation, 1069
Bacteria, adherence of, to respiratory tract cells, 784
Basophil(s)
comparative studies of mediator release from guinea pig lung mast cells and, 763
progenitors, peripheral blood basophils, and nasal metachromatic cells in allergic rhinitis, 757
Beta-
adrenergic responsiveness, reduced, role of phospholipase in, in experimental asthma, 362
lactamase, presence of, in clinical isolate of *M. fortuitum*, 653
Betaxolol and timolol, effect of topical ophthalmic instillation of, on lung function in asthmatic subjects, 264
Biopsy
lingula lung, is it representative (correspondence), 707
tru-cut needle, diagnosis of thoracic splenosis by (case report), 1199
*Blastomyces dermatitidis*, comparison of enzyme immunoassay, immunodiffusion, and complement fixation tests in detecting antibody in serum to A antigen of, 144
Blastomycosis, use of ketoconazole in treatment of, 141
Bleomycin-induced pulmonary fibrosis in rats, cellular alterations in, 1043
Blood
flow, pulmonary, effect of regional lung injury or alveolar hypoxia on, measured by positron emission tomography, 1037
gas
determinations
arterial, three-month follow-up of, in candidates for long-term oxygen therapy, 547
pullback, interpretation of, during positive end-expiratory pressure ventilation and after exclusion of bronchial circulation in dog, 1019
effect of flow rate on, during constant flow ventilation in dogs, 626
Body position changes, diaphragmatic responses to, in obese patients with obstructive sleep apnea, 32
Bone marrow, mouse, cromolyn inhibition of mediator release in mast cells derived from, 1105
Boyle's law, more problems with (editorial), 184
Breathing
and oxygenation during sleep in normal men and women (correspondence), 506
pattern
in acute severe asthma, 587
during and after maximal exercise in patients with COPD, interstitial lung disease, and cardiac disease, and in normal subjects, 581
during sleep in normal pregnant women, 38
Breathlessness and exercise in patients with cardiorespiratory disease, 21 (correspondence), 945

Bronchitis, chronic, asthma, and emphysema diagnoses, comparison of, in population sample, 981
Bronchoalveolar lavage
cellular differentials, assessment of interlobar variation of, in interstitial lung disease, 444
and clinical and functional findings in asbestosis, correlation of, 848
fluid
acute effect of smoking on elastaselike esterase activity and immunologic neutrophil elastase concentrations in, 568
evaluation in rheumatoid arthritis, 450
increased metachromatic cells and lymphocytes in, of dogs with airway hyperreactivity, 482
neutrophils increase after corticosteroid therapy in smokers with idiopathic pulmonary fibrosis, 104
use of central laboratory for analysis of, 186
functional comparison of cells obtained from whole lung by, 473
and lung tissue, lymphocyte phenotyes in, in sarcoidosis and idiopathic pulmonary fibrosis, 855
subclinical pulmonary involvement in collagen-vascular diseases assessed by, 574
and technological dilemma (editorial), 181
Bronchoconstriction
antigen-induced, effects of, on phrenic nerve activity, 749
etiopathogenic mechanisms of, in byssinosis (pulmonary perspective), 1181
experimental, high frequency transthoracic ventilation improves gas exchange during, in rabbits, 605
methacholine-induced, factors that contribute to inhibition of, 735
$SO_2$-induced, inhibition of, in asthmatic subjects by cromolyn is dose dependent, 1150
Bronchodilatation and attenuation of exercise-induced bronchospasm by PY 108-068, a new calcium antagonist, 116
Bronchodilator response in COPD, 814
Bronchoscopy
and Bactec for diagnosis of tuberculosis (editorial), 962
fiberoptic, ten-year experience with, for mycobacterial isolation, 1069
Bronchospasm, bronchodilatation and attentuation of exercise-induced, by PY 108-068, a new calcium antagonist, 116
Byssinosis, etiopathogenic mechanisms of bronchoconstriction in (pulmonary perspective), 1181
Calcium
antagonist PY 108-068, bronchodilatation and attenuation of exercise-induced bronchospasm by, 116
channel blocker, verapamil, effects of, on asthmatic airway responses to muscarinic, histaminergic, and allergenic stimuli, 730
Cancer, lung
clinical features of population-based series of patients with, presenting with solitary nodule, 302
and passive smoking (editorial), 1
Cardiac
disease, breathing patterns during and after maximal exercise in patients with, 581
dysfunction during acute lung injury induced by oleic acid in dogs, 519
Cardiorespiratory disease, breathlessness and exercise in patients with, 21
(correspondence), 945
Cardiovascular function, reversible depression of, by ventriculocisternal perfusion with gamma aminobutyric acid in dogs, 1024
Cat
effects of parasympathectomy on serotonin-induced bronchoconstriction, 110
external high frequency oscillation in, 630
Cell(s)
activity, monocyte suppressor, and increased interleukin-1 production associated with tuberculosis, 73
antigen-presenting, capacity of normal murine alveolar macrophages to function as, for initiation of primary antibody-forming cell responses to sheep erythrocytes, 1097
bacterial adherence, tracheal, influence of sputum IgA and elastase on, 255
Clara, quantitative three-dimensional reconstruction and carbohydrate cytochemistry of rat nonciliated, 899
functional comparison of, obtained from whole lung by bronchoalveolar lavage, 473
genetically engineered, mutant alpha-1-proteinase inhibitor is more resistant than normal inhibitor to oxidative inactivation by, 353
guinea pig lung mast, and basophils, comparative studies of mediator release from, 763
increased metachromatic, and lymphocytes in bronchoalveolar lavage fluid of dogs with airway hyperreactivity, 482
mast, derived from mouse bone marrow, cromolyn inhibition of mediator release in, 1105
nasal metachromatic, in allergic rhinitis, 757
parenchymal, counting, in goat lung with serial section reconstruction and stereology, 891
proliferation, patterns of, during recovery from oxygen injury, 1055
purified lung mast, characterization of inflammatory mediator release from, 614
respiratory tract, bacterial adherence to, 784
Chemiluminescence of lung macrophages and blood leukocytes in sarcoidosis, 298
Chemoprophylaxis, isoniazid, active tuberculosis after, of Southeast Asian refugees, 431
Chemotherapy
long-term follow-up of clinical trial of six-month and four-month regimens of, in treatment of pulmonary tuberculosis, 779
short-course, influence of initial drug resistance on response to, in pulmonary tuberculosis, 423
Chest physicians, should they be passive on smoking? (editorial), 4
Cheyne-Stokes respiration, upper airway occlusion during sleep in patients with, 42
Children
asthmatic, effect of corticosteroids on bronchial responsiveness to methacholine in (correspondence), 173
in Hamilton, Ontario, three-year cohort study of role of environmental factors in respiratory health of, 987
preadolescent, effects of ambient sulfur oxides and suspended particles on respiratory health of, 834
with sarcoidosis, pulmonary function in, 94
Childhood, passive smoking in
(editorial), 959
in Tecumseh, Michigan, 966
Chlormadinone acetate, effect of, on ventilatory control in patients with COPD, 552
Circulation, bronchial, interpretation of pulmonary artery wedge pressure and pullback blood gas determinations after exclusion of, in dog, 1019
Citric acid, aerosolized, airway responses to, in ponies with heaves, 357
Cobra venom factor, reduction of total hemolytic complement activity with, does not prevent endotoxin-induced lung injury in sheep, 62
Collagen
biosynthesis, two serum markers of, as possible indicators of irreversible pulmonary impairment in farmer's lung, 88
-vascular diseases, subclinical pulmonary involvement in, assessed by bronchoalveolar lavage, 574
Complement
activation
intravascular, thromboxane as mediator, pulmonary dysfunc-

tion during, in sheep, 269
systemic immune complexes and antibodies to *Pseudomonas aeruginosa*, association of, and exotoxin A with mortality in cystic fibrosis, 648
activity, total hemolytic, reduction of, with *Naja Naja* cobra venom factor does not prevent endotoxin-induced lung injury in sheep, 62
fixation, enzyme immunoassay, and immunodiffusion test, comparison of, in detecting antibody in serum to A antigen of *Blastomyces dermatitidis*, 144
role of, in cigarette-smoke-induced chemotactic activity of lung fluids, 478
Copper smelter workers exposed to $SO_2$, longitudinal evaluation of pulmonary function in, 830
CORRESPONDENCE
"Apnea Index": need for improving description of respiratory variability during sleep, 707
Asbestos exposure—quantitative assessment of risk, 945
Airway hyperexcitability in asthmatics, 707
Breathing and oxygenation during sleep in normal men and women, 506
Breathlessness and exercise in patients with cardiorespiratory disease, 945
Effect of corticosteroids on bronchial responsiveness to methacholine in asthmatic children, 173
Hazardous clinical judgment in tuberculosis, 173
Hypoxia-altitude simulation test, 343
Indicators of risk, course, and prognosis in adult respiratory distress syndrome, 343
Inspiratory muscle function in patients with severe kyphoscoliosis, 173
Lingula lung biopsy: is it representative? 707
Long-term oxygen therapy in COPD, 173
Need for improving description of respiratory variability during sleep, 707
Reference equations for single-breath diffusing capacity, 1210
Corticosteroids
effect of
on bronchial responsiveness to methacholine in asthmatic children (correspondence), 173
on mortality and lung histopathology after inhalation lung injury, 191
therapy, bronchoalveolar lavage fluid neutrophils increase after, in smokers with idiopathic pulmonary fibrosis, 104
Cortisol control, renin-angiotensin II-aldosterone and ACTH-, during acute hypoxemia and exercise in patients with COPD, 396
Crocidolite workers of Wittenoom Gorge, former, natural history of asbestosis in, 994
Cromolyn
inhibition
of mediator release in mast cells derive from mouse bone marrow, 1105
of $SO_2$-induced bronchoconstriction in asthmatic subjects by, is dose dependent, 1150
and muscarinic antagonist, interaction of, in inhibiting bronchial reactivity to $SO_2$ and to eucapnic hyperpnea alone, 1154
Cystic fibrosis
association of systemic immune complexes, complement activation, and antibodies to *Pseudomonas aeruginosa* lipopolysaccharide, and extoxin A with mortality in, 648
IgG subclasses in, and response to *Pseudomonas aeruginosa* lipopolysaccharide, 418
regional distribution of macroscopic lung disease in, 535
relationship between respiratory muscle strength, nutritional status, and lung volume in, 414
Cytochemistry, carbohydrate, and quantitative three-dimensional reconstruction of rat nonciliated bronchiolar (Clara) cells, 899
Cytotoxicity, leukocyte, enhancement of, after exercise-induced asthma, 609
Dazmegrel does not reduce monocrotaline-induced pulmonary hypertension, 789
Dead space to tidal volume ratio in diagnosis of pulmonary embolism, 679
Diaphragm
canine, blood flow to, during hemorrhagic shock, 205
isolated fibers of, and contractility, effects of theophylline on, 1060
responses of, to body position changes in obese patients with obstructive sleep apnea, 32
Dilution curves, multiple indicator, assessment of lung injury in adult respiratory distress syndrome using, 1006
DNA probes, cloned, analysis of restriction fragment heterogeneity using, and genetic relatedness among strains of *M. tuberculosis* complex, 1065
Dogs
with airway hyperreactivity, increased metachromatic cells and lymphocytes in bronchoalveolar lavage fluid of, 482
bronchial injury induced by nitric acid in, 1049
cardiac dysfunction during acute lung injury induced by oleic acid in, 519
changes in bronchial reactivity to acetylcholine with type C influenza virus infection in, 367
diaphragm of, blood flow to, during hemorrhagic shock, 205
effect of flow rate on blood gases during constant flow ventilation in, 626
interpretation of pulmonary artery wedge pressure and pullback blood gas determinations during positive end-expiratory pressure ventilation and after exclusion of bronchial circulation in, 1019
pulmonary and systemic effects of increased negative inspiratory intrathoracic pressure in, 49
reversible depression of ventilation and cardiovascular function by ventriculocisternal perfusion with gamma aminobutyric acid in, 1024
Drug(s)
-induced pulmonary disease
Part 1: cytotoxic (state of art), 321
Part 2: noncytotoxic (state of art), 488
resistance, initial, influence of, on response to short-course chemotherapy of pulmonary tuberculosis, 423
transport, altered, possible participation of, on resistance mechanism in clinical isolate of *M. fortuitum*, 653
Dust, guar gum, reversible obstructive sleep apnea caused by occupational exposure to (case report), 935
EDITORIALS
Bronchoalveolar lavage and the technological dilemma, 181
Bronchoscopy and Bactec for diagnosis of tuberculosis: state of art or brief dissertation on efficient search for tubercle bacillus? (editorial), 962
Clinical usefulness of different forms of alpha-1-protease inhibitor, 349
COPD: a disease of reversible air-flow obstruction, 725
Critical appraisal of therapy of asthma—an idea whose time has come, 723
Isoniazid, rifampin, and hepatotoxicity, 963
Large animal models of asthma, 351
More problems with Boyle's law–or "VTG or not VTG, that is the question" 184
Passive smoking in childhood, 959
Passive smoking and lung cancer: what is the risk? 1
Should chest physicians be passive on smoking? 4
Sputum induction in acquired immunodeficiency syndrome, 513
Elastase
concentration, immunologic neutrophil, in bronchoalveolar lavage fluid, acute effect of smoking on, 568
-induced

emphysema, effects of dosage and timing of administration of peptide boronic acid inhibitor on lung mechanics and morphometrics in, in hamsters, 635
lung injury, new peptide boronic acid inhibitor of, in hamsters, 639
influence of, on tracheal cell bacterial adherence, 255
Embolism, pulmonary dead space to tidal volume ratio in diagnosis of, 679
Emphysema
animal models of (state of art), 149
asthma, and chronic bronchitis diagnoses, comparisons of, in population sample, 981
diagnosis of, by computed tomographic-pathologic correlation, 541
elastase-induced, effects of dosage and timing of administration of peptide boronic acid inhibitor on lung mechanics and morphometrics in, in hamsters, 635
ranking severity of, on whole lung slices (Note), 930
Endotoxemia
influence of steroidal and nonsteroidal anti-inflammatory agents on accumulation of arachidonic acid metabolites in plasma and lung lymph after, in awake sheep, 55
tracing leukocyte marker protein in lung fluids and lung-draining lymph nodes during, in sheep, 866
Endotoxin
-induced lung injury, reduction of total hemolytic complement activity with cobra venom factor does not prevent, in sheep, 62
interleukin-1 secretion by alveolar macrophages stimulated with, is augmented by recombinant immune (gamma) interferon, 455
and lung injury (state of art), 913
Enzyme(s)
-linked immunosorbent assay
competitive, diagnosis of gram-negative bacillary pneumonia in animal model using, to detect presence of lipid A, 861
different classes of antibody activities to *Trichosporon cutaneum* antigen in summer-type hypersensitivity pneumonitis by, 83
immunodiffusion, and complement fixation tests, comparison of, in detecting antibody in serum to A antigen of *Blastomyces dermatitidis*, 144
genetically engineered, mutant alpha-1-proteinase inhibitor is more resistant than normal inhibitor to oxidative inactivation by, 353
Epidemiologic studies, comparison of two definitions of abnormality on pulmonary outcome in, 825
Epithelial permeability produced by phagocytosing neutrophils, 875
Erythrocytes, sheep, capacity of normal murine alveolar macrophages to function as antigen-presenting cells for initiation of primary antibody-forming cell responses to, 1097
Esterase activity, elastaselike, acute effect of smoking on, in bronchoalveolar lavage fluid, 568
Etiopathogenic mechanisms of bronchoconstriction by byssinosis (pulmonary perspective), 1181
Exercise
breathing pattern during and after maximal, in patients with COPD, interstitial lung disease, and cardiac disease, and in normal subjects, 581
and breathlessness in patients with cardiorespiratory disease, 21 (correspondence), 945
capacity, effects of hydralazine on, in pulmonary hypertension secondary to COPD, 385
endurance, effect of low frequency fatigue on, in sternomastoid muscle, 667
-induced
asthma, enhancement of leukocyte cytotoxicity after, 609
bronchospasm, bronchodilatation and attentuation of, by PY 108-068, a new calcium antagonist, 116
renin-angiotensin II-aldosterone and ACTH-cortisol control during, in patients with COPD, 396
single dose of almitrine improves pulmonary gas exchange during, in patients with chronic air-flow obstruction, 562
Exotoxin A, systemic immune complexes, complement activation, and antibodies to *Pseudomonas aeruginosa* lipopolysaccharide, association of, with mortality in cystic fibrosis, 648
Explants, lung, synthesis of type IV procollagen in, 618
Farmer's lung, two serum markers of collagen biosynthesis as possible indicators of irreversible pulmonary impairment in, 88
Farmers, asymptomatic, persistent bronchoalveolar lymphocytosis in, 843
Fatigue
low frequency, effect of, on endurance exercise in sternomastoid muscle, 667
of sternomastoid muscle and aminophylline, 672
Fenestrae, alveolar, in smokers and relationship with light microscopic and functional abnormalities, 126
Fibrin turnover, alveolar, abnormalities in pathways of, among patients with interstitial lung disease, 437
Fibrosis (*See also* Cystic fibrosis)
bleomycin-induced pulmonary, cellular alterations in alveolar wall in, in rats, 1043
idiopathic pulmonary
bronchoalveolar lavage fluid neutrophils increase after corticosteroid therapy in smokers with, 104
clinical, radiographic, and physiologic scoring system for longitudinal assessment of patients with, 97
lymphocyte phenotypes in bronchoalveolar lavage and lung tissue in, 855
$FEV_1$, longitudinal changes in, in adults, 974
Furosemide, effect of, during normoxemia and hypoxemia, 279
Gas exchange
high frequency transthoracic ventilation improves, during experimental bronchoconstriction in rabbits, 605
pulmonary, single dose of almitrine improves, during exercise in patients with chronic air-flow obstruction, 562
Glutathione redox cycle as defense system against $H_2O_2$-induced prostanoid formation and vasoconstriction in rabbit lungs, 1029
Goat lung, counting parenchymal cells in, with serial section reconstruction and stereology, 891
Gold labeling, ultrastructural localization of bronchial antileukoprotease in central and peripheral airways by, 882
Granulomatous disease, chronic, recurrent *Nocardia* pneumonia in adult with (case report), 932
Growth factor, competence-type, intra-alveolar release of, after lung injury, 68
Guar gum dust, reversible obstructive sleep apnea caused by occupational exposure to (case report), 935
Guinea pig lung mast cells and basophils, comparative studies of mediator release from, 763
Hamilton, Ontario, three-year cohort study of role of environmental factors in respiratory health of children in, 987
Hamsters, effects of dosage and timing of administration of peptide boronic acid inhibitor on lung mechanics and morphometrics in elastase-induced emphysema in, 635
Health team, skills of, involved in out-of-hospital care for patients with COPD (ATS position paper), 948
Heaves, airway responses to aerosolized methacholine and citric acid in ponies with, 357
Hemorrhagic shock, blood flow to canine diaphragm during, 205
Hemosiderosis, idiopathic pulmonary, nitroglycerin-responsive pulmonary hypertension in (case report), 170
Hepatitis, rifampin-induced release of hydrazine from isoniazid as possible cause of, 1072
Hepatotoxicity, isoniazid, and rifampin (editorial), 963
12-HETE, measurements of, after endotoxemia in awake sheep, 55

Histamine
action in paraquat-induced lung injury, 274
biochemical analysis of nasal secretions induced by, 1138
HLA-DQw2, association of aspirin-sensitive asthma with, 261
Hydralazine, effects of, on exercise capacity in pulmonary hypertension secondary to chronic COPD, 385
Hydrazine, rifampin-induced release of, from isoniazid as possible cause of hepatitis, 1072
Hydrogen-peroxide-induced prostanoid formation, glutathione redox cycle as defense system against, in rabbit lungs, 1029
Hyperexcitability, airway, in asthmatics (correspondence), 707
Hyperpnea, interaction of cromolyn and muscarinic antagonist in inhibiting bronchial reactivity to, 1154
Hyperreactivity, airway, increased metachromatic cells and lymphocytes in bronchoalveolar lavage fluid of dogs with, 482
Hyperresponsiveness, overall airway, and site of airway response, relationship between, in asthma, 593
Hypersensitivity pneumonitis, summer-type, different classes of antibody activities to *Trichosporon cutaneum* antigen in, by ELISA, 83
Hypertension
monocrotaline-induced pulmonary, platelet thromboxane inhibitor dazmegrel does not reduce, 789
nitroglycerin-responsive pulmonary, in idiopathic pulmonary hemosiderosis (case report), 170
obliterative pulmonary, noninvasive assessment of hemodynamic improvement during, 380
secondary to COPD, pulmonary, effects of hydralazine on exercise capacity in, 385
Hypertrophy, right ventricular, caused by intermittent hypoxia, nitrendipine attenuates, in rats, 375
Hypoglossal nerve activity, differential depression of, by alcohol, 46
Hypoxemia
acute
renin-angiotensin II-aldosterone and ACTH-cortisol control during, in patients with COPD, 396
theophylline clearance in patients with severe COPD receiving supplemental oxygen and effect of, 1110
and normoxemia, effect of furosemide during, 279
Hypoxia
-altitude simulation test (correspondence), 343
alveolar, effect of, on pulmonary blood flow and lung water measured by positron emission tomography, 1037
intermittent, nitrendipine attenuates pulmonary vascular remodeling and right ventricular hypertrophy caused by, in rats, 375
Immune complexes, systemic, complement activation and antibodies to *Pseudomonas aeruginosa* lipopolysaccharide, association of, and exotoxin A with mortality in cystic fibrosis, 648
Immunodiffusion, enzyme immunoassay, and complement fixation tests, comparison of, in detecting antibody in serum to A antigen of *Blastomyces dermatitidis*, 144
Immunoglobulin
A, sputum influence of, on tracheal cell bacterial adherence, 255
G
monomeric, binding of, to monocytes and alveolar macrophages, 292
subclasses in cystic fibrosis, and its response to *Pseudomonas aeruginosa* lipopolysaccharide, 418
Indian children, North American, living in proximity to aluminum smelter, respiratory survey of, 307
Infants
with AIDS, pathology and treatment of interstitial pneumonitis in two (case report), 1196
with airway obstruction, can thoracic gas volume be measured in, 245
respiratory distress syndrome, respiratory illnesses in survivors of, 1011
Influenza virus infection, type C, changes in bronchial reactivity to acetylcholine with, in dogs, 367
Interferon, recombinant immune (gamma), interleukin-1 secretion by alveolar macrophages stimulated with endotoxin is augmented by, 455
Interleukin-1
production, increased and monocyte suppressor cell activity associated with tuberculosis, 73
secretion by alveolar macrophages stimulated with endotoxin is augmented by recombinant immune (gamma) interferon, 455
Isoniazid
bioavailability of, in two commercially available formulations for use in short-course treatment of tuberculosis, 1076
chemoprophylaxis, active tuberculosis after, of Southeast Asian refugees, 431
rifampin
and hepatotoxicity (editorial), 963
-induced release of hydrazine from, as possible cause of hepatitis, 1072
Isoproterenol, inhaled, and intravenously administered aminophylline, comparison of effects of, on normal airways, 744
Ketoconazole, use of, in treatment of blastomycosis, 141
Kyphoscoliosis, severe, inspiratory muscle function in patients with (correspondence), 173
Lactate concentration, normal, lack of relationship between oxygen delivery and uptake when measured independently in patients with adult respiratory distress syndrome, 999
Leukocyte(s)
blood, chemiluminescence of, in sarcoidosis, 298
cytotoxicity, enhancement of, after exercise-induced asthma, 609
marker position in lung fluids and lung-draining lymph nodes during endotoxemia in sheep, 866
Leukotriene(s)
$B_4$, role of, in genesis of oxygen toxicity in lung, 805
$D_4$, inhaled, characterization of airway response to, in normal subjects, 1127
sulfidopeptide, local generation of, upon nasal provocation with cold, dry air, 1133
Lipid A, diagnosis of gram-negative bacillary pneumonia in animal model using competitive ELISA to detect presence of, 861
Lipopolysaccharide, *Pseudomonas aeruginosa*
association of, with mortality in cystic fibrosis, 648
IgG2 response to, in cystic fibrosis, 418
Loads, acute flow-resistive, role of endogenous opioids in ventilatory response to, 26
Lung
cancer
clinical features of population-based series of patients with, presenting with solitary nodule, 302
and passive smoking (editorial), 1
disease
chronic, study of effects of low flow oxygen on oxygen delivery in right ventricular function in, 390
interstitial
abnormalities in pathways of alveolar fibrin turnover among patients with, 437
assessment of interlobar variation of bronchoalveolar lavage cellular differentials in, 444
breathing pattern during and after maximal exercise in patients with, 581
macroscopic, regional distribution of, in cystic fibrosis, 535
fluids
role of complement in cigarette-smoke-induced chemotactic activity of, 478
tracing leukocyte marker protein in, during endotoxemia

in sheep, 866
function
effect of topical ophthalmic instillation of timolol and betaxolol on, in subjects with asthma, 264
relationship between alveolitis and subsequent changes in, 574
and structure, altered in rat after subchronic exposure to acrolein, 286
goat, counting parenchymal cells in, with serial section reconstruction and stereology, 891
injury
acute, induced by oleic acid in dogs, cardiac dysfunction during, 519
assessment of, in adult respiratory distress syndrome using multiple indication dilution curves, 1006
elastase-induced, new peptide boronic acid inhibitor of, in hamsters, 639
and endotoxin (state of art), 913
inhalation, mortality and lung histopathology after, effect of corticosteroids on, 191
intra-alveolar release of a competence-type growth factor after, 68
paraquat-induced, histamine action in, 274
reduction of total hemolytic complement activity with cobra venom factor does not prevent, in sheep, 62
regional, effect of, on pulmonary blood flow and lung water measured by positron emission tomography, 1037
lavage, saline, external high frequency oscillation in cats in normal lung and after, 630
lymph, influence of steroidal and nonsteroidal anti-inflammatory agents on accumulation of arachidonic acid metabolites in plasma and, after endotoxemia in awake sheep, 55
mechanics
effects of dosage and timing of administration of peptide boronic acid inhibitor on, in elastase-induced emphysema in hamsters, 635
and morphologic features of bronchial injury by nitric acid in dogs, 1049
rabbit, glutathione redox cycle as defense system against $H_2O_2$-induced prostanoid formation and vasoconstriction in, 1029
rat, effect of postnatal starvation and refeeding on adult, 769
slices, whole, ranking severity of emphysema on (Note), 930
vascular injury, acetylcholine-induced pulmonary vasodilation in, 197
volume
during high frequency oscillation (Note), 928
respiratory muscle strength, and nutritional status, relationship between, in cystic fibrosis and asthma, 414
water, effect of regional lung injury or alveolar hypoxia on, measured by positron emission tomography, 1037
whole, functional comparison of cells obtained from, by bronchoalveolar lavage, 473
Lymph nodes, lung-draining, tracing leukocyte marker protein in, during endotoxemia in sheep, 866
Lymphocyte(s)
increased, in bronchoalveolar lavage fluid of dogs with airway hyperreactivity, 482
Lymphocyte
phenotypes in bronchoalveolar lavage and lung tissue in sarcoidosis and idiopathic pulmonary fibrosis, 855
proliferation, alveolar macrophage regulation of, 1091
reactions, autologous mixed, alveolar macrophage stimulation of T-cell proliferation in, 78
Lymphocytosis, persistent bronchoalveolar, in asymptomatic farmers, 843
Macrophage(s)
alveolar
binding of monomeric IgG to, 292
distribution of procoagulant and plasminogen activator activities among density fraction of rabbit, 468
stimulated with endotoxin, interleukin-1 secretion by, is augmented by recombinant immune (gamma) interferon, 455
stimulation of T-cell proliferation in autologous mixed lymphocyte reactions, 78
studies of membrane receptors and phagocytosis in subpopulations of rat, 461
zonal distribution of, in adult lungs, 908
function, alveolar, effects of protein deprivation and BCG vaccination on, in pulmonary tuberculosis, 1081
lung, chemiluminescence of, in sarcoidosis, 298
newborn alveolar, opsonic receptor function is reduced on, 238
normal murine alveolar, capacity of, to function as antigen-presenting cells for initiation of primary antibody-forming cell responses to sheep erythrocytes, 1097
pulmonary, functional comparison of cells obtained from whole lung by bronchoalveolar lavage, 473
regulation, alveolar, of lymphocyte proliferation, 1091
Medroxyprogesterone acetate, protection of differential depression of hypoglossal nerve activity by alcohol by pretreatment with, 46
Membrane receptors, studies of, in subpopulations of rat alveolar macrophages, 461
Metaproterenol sulfate and atropine sulfate, comparison of, in emergency treatment of asthma, 727
Methacholine
aerosolized, airway responses to, in ponies with heaves, 357
biochemical analysis of nasal secretions induced by, 1138
dose-response effects of, in asthmatic subjects, 593
effect of corticosteroids on bronchial responsiveness to, in children (correspondence), 173
-induced bronchoconstriction, factors that contribute to inhibition of, 735
inhalation test, modification of, and its epidemiologic use in polyurethane workers, 600
Monocrotaline-induced pulmonary hypertension is not reduced by platelet thromboxane inhibitor dazmegrel, 789
Monocytes, human blood, binding of monomeric IgG to, 292
Morphine and prochlorperazine, effects of combined, on ventilatory control, 558
Morphometrics, effects of dosage and timing of administration of peptide boronic acid inhibitor on, in elastase-induced emphysema in hamsters, 635
Mt. St. Helens, respiratory effects of volcanic ash from, 526
Mouse bone marrow, cromolyn inhibition of mediator release in mast cells derived from, 1105
Muscle
endurance training program, ventilatory, evaluation of, in rehabilitation of patients with COPD, 400
function, inspiratory, in patients with severe kyphoscoliosis (correspondence), 173
respiratory skeletal and smooth, comparative effects of theophylline and adenosine on, 809
sternomastoid
aminophylline and fatigue of, 672
effect of low frequency fatigue on endurance exercise in, 667
strength, respiratory, nutritional status and lung volume, relationship between, in cystic fibrosis and asthma, 414
use and rib cage motion in high tetraplegics, 1115
Mycobacteria, isolation of, using fiberoptic bronchoscopy, 1069
*Mycobacterium*
*fortuitum*, biochemical mechanisms of antibiotic resistance in clinical isolate of, 653
tuberculosis complex, genetic relatedness among strains of, 1065
Nasal secretion induced by methacholine, histamine, and allergen provocations, biochemical analysis of, 1138
Nervous system, nonadrenergic, noncholinergic inhibitory, reflex activation of, in feline airways, 1159
Neutropenia, patients with, occurrence of adult respiratory dis-

tress syndrome in (case report), 313
Neutrophil(s)
bronchoalveolar lavage fluid, increase after corticosteroid therapy in smokers with idiopathic pulmonary fibrosis, 104
elastase concentration, immunologic, in bronchoalveolar lavage fluid, acute effect of smoking on, 568
lung, in adult respiratory distress syndrome, 218
phagocytosing, epithelial permeability produced by, 875
-pulmonary interaction, abnormal, in adult respiratory distress syndrome and assessment of pulmonary neutrophil kinetics in indium-111 neutrophil scintigraphy, 792
Nitrendipine attenuates the pulmonary vascular remodeling and right ventricular hypertrophy caused by intermittent hypoxia in rats, 375
Nitric acid, canine model of bronchial injury induced by, 1049
Nitroglycerin-responsive pulmonary hypertension in idiopathic pulmonary hemosiderosis (case report), 170
*Nocardia* pneumonia, recurrent, in adult with chronic granulomatous disease (case report), 932
Normoxemia and hypoxemia, effect of furosemide during, 279
Nutrition, respiratory muscle strength, and lung volume, relationship between in cystic fibrosis and asthma, 414
Obese patients with obstructive sleep apnea, diaphragmatic responses to body position changes in, 32
Oleic acid, cardiac dysfunction during acute lung injury induced by, in dogs, 519
Opioids, endogenous, role of, in ventilatory response to acute flow-resistive loads, 26
Opsonic receptor function is reduced on surface of newborn alveolar macrophages, 238
Oscillation
external high frequency, in cats, 630
high frequency, lung volume during (Note), 928
Oxygen
delivery and uptake in adult respiratory distress syndrome, 999
injury, patterns of cell proliferation during recovery from, 1055
low flow, effects of, on oxygen delivery and right ventricular function in chronic lung disease, 390
supplemental, theophylline clearance in patients with severe COPD receiving, 1110
tension, alveolar, and single-breath CO diffusing capacity, relationship between, 676
therapy, long-term
in COPD (correspondence), 173
three-month follow-up of arterial blood gas determinations in candidates for, 547
toxicity in lung, role of leukotriene $B_4$ in genesis of, 805
Oxygenation
arterial, supine change in, in patients with COPD, 820
and breathing during sleep in normal men and women (correspondence), 506
Paraquat-induced lung injury, histamine action in, 274
Parasympathectomy, effects of, on serotonin-induced bronchoconstriction in cat, 110
Peptide boronic acid inhibitor
effects of dosage and timing of administration of, on lung mechanics and morphometrics in elastase-induced emphysema in hamsters, 635
new, of elastase-induced lung injury in hamsters, 639
Perfusion, ventriculocisternal, reversible depression of ventilation and cardiovascular function by, with gamma aminobutyric acid in dogs, 1024
Permeability indices, lung vascular and epithelial, comparison of, in adult respiratory distress syndrome, 1002
Phagocytosis and membrane receptors, studies of, in subpopulations of rat alveolar macrophages, 461
Phenotypes, lymphocyte, in bronchoalveolar lavage and lung tissue in sarcoidosis and idiopathic pulmonary fibrosis, 855
Phospholipase, role of, in reduced beta-adrenergic responsiveness in experimental asthma, 362
Phrenic nerve activity, effect of antigen-induced bronchoconstriction on, 749
Plasma, influence of steroidal and nonsteroidal anti-inflammatory agents on accumulation of arachidonic acid metabolites in, after endotoxemia in awake sheep, 55
Plasminogen activator activities, distribution of, among density fractions of normal rabbit alveolar macrophages, 468
Platelet thromboxane inhibitor, dazmegrel, does not reduce monocrotaline-induced pulmonary hypertension, 789
Pneumoconiosis, dental technician's (case report), 316
Pneumocytes, type II, zonal distribution of, in adult lungs, 908
*Pneumocystis carinii* pneumonia
sputum examination for diagnosis of, in AIDS, 226
usefulness of induced sputum in diagnosis of, in patients with AIDS, 515
Pneumonia
experimental pneumococcal, ascorbate modulates antibacterial mechanisms in, 643
and fatality in patients receiving continuous mechanical ventilation, risk factors for, 792
gram-negative bacillary, diagnosis of, in animal model using competitive ELISA technique to detect presence of lipid A, 861
*Pneumocystis carinii*
sputum examination for diagnosis of, in AIDS, 226
usefulness of induced sputum in diagnosis of, in patients with AIDS, 515
recurrent *Nocardia*, in adult with chronic granulomatous disease (case report), 932
Pneumonitis
interstitial, pathology and treatment of, in two infants with AIDS (case report), 1196
summer-type hypersensitivity, different classes of antibody activities to *Trichosporon cutaneum* antigen in, by ELISA, 83
Polychondritis, relapsing, pulmonary function in, 1120
Polyurethane workers, modification of methacholine inhalation test and its epidemiologic use in, 600
Ponies with heaves, airway responses to aerosolized methacholine and citric acid in, 357
Posture, effects of, on obstructive sleep apnea, 662
Pregnancy, breathing during sleep in normal, 38
Pressure, negative inspiratory intrathoracic, pulmonary and systemic effects of increased, in dogs, 49
Prochlorperazine and morphine, effects of combined, on ventilatory control, 558
Procoagulant activator activities, distribution of, among density fractions of normal rabbit alveolar macrophages, 468
Procollagen, type IV, synthesis of, in lung explants, 618
Prostacyclin, measurements of, after endotoxemia in awake sheep, 55
Prostaglandin $D_2$ potentiates airway responsiveness to histamine and methacholine, 252
Prostanoid formation, $H_2O_2$-induced, glutathione redox cycle as defense system against, in rabbit lungs, 1029
Protein
deprivation, effects of, on alveolar macrophage function in pulmonary tuberculosis, 1081
leukocyte marker, in lung fluids and lung-draining lymph nodes during endotoxemia in sheep, 866
*Pseudomonas aeruginosa* lipopolysaccharide
association of, with mortality in cystic fibrosis, 648
IgG2 response to, in cystic fibrosis, 418
Pulmonary
artery wedge pressure, interpretation of, during positive end-expiratory pressure ventilation and after exclusion of bronchial circulation in dog, 1019
disease
chronic obstructive
breathing pattern during and after maximal exercise in patients with, 581

bronchodilator response in, 814
a continuing challenge (pulmonary perspective), 942
a disease of reversible air-flow obstruction (editorial), 725
effect of chlormadinone acetate on ventilatory control in patients with, 552
effects of hydralazine on exercise capacity in pulmonary hypertension secondary to, 385
evaluation of ventilatory muscle endurance training program in rehabilitation of patients with, 400
long-term oxygen therapy in (correspondence), 173
prognosis in, 14
renin-angiotensin II-aldosterone and ACTH-cortisol control during acute hypoxemia and exercise in patients with, 396
skills of health team involved in out-of-hospital care for patients with (ATS position paper), 948
supine change in arterial oxygenation in patients with, 820
theophylline clearance in patients with, receiving supplemental oxygen and effect of acute hypoxemia, 1110
drug-induced
Part 1: cytotoxic drugs (state of art), 321
Part 2: noncytotoxic drugs (state of art), 488
dysfunction, thromboxane as mediator of, during intravascular complement activation in sheep, 269
function
in children with sarcoidosis, 94
longitudinal evaluation of, in copper smelter workers exposed to $SO_2$, 830
in relapsing polychondritis, 1120
relationship between pleural pressures and changes in, after therapeutic thoracentesis, 658
respiratory conditions, and passive smoking in childhood in Tecumseh, Michigan, 966
inflammatory response, characterization of, to anaerobic bacterial challenge, 212
medicine, academic or practice, factors in choice of (pulmonary perspective), 937
vascular remodeling caused by intermittent hypoxia, nitrendipine attenuates, in rats, 375
Pyrazinamide, bioavailability of, in two commercially available formulations designed for use in short-course treatment of tuberculosis, 1076
Rabbit
alveolar macrophages, distribution of procoagulant and plasminogen activator activities among density fractions of, 468
high frequency transthoracic ventilation improves gas exchange during experimental bronchoconstriction in, 605
lungs, glutathione redox cycle as defense system against $H_2O_2$-induced prostanoid formation and vasoconstriction in, 1029
Radial traction and small airways disease in excised human lungs, 132
Rat
altered lung function and structure in, after subchronic exposure to acrolein, 286
alveolar macrophages, studies of membrane receptors and phagocytosis in subpopulations of, 461
cellular alterations in alveolar wall in bleomycin-induced pulmonary fibrosis in, 1043
lungs, adult, effect of postnatal starvation and refeeding on, 769
nitrendipine attenuates pulmonary vascular remodeling and right ventricular hypertrophy caused by intermittent hypoxia in, 375
nonciliated bronchiolar (Clara) cells, quantitative three-dimensional reconstruction and carbohydrate cytochemistry of, 899
surfactant, colloidal gold immunoultrastructural localization of, 230
Reconstruction
quantitative three-dimensional, of rat nonciliated bronchiolar (Clara) cells, 899
serial section, counting parenchymal cells in goat lung with, 891
Reflex activation of nonadrenergic, noncholinergic inhibitory nervous system in feline airways, 1159
Renin-angiotensin II-aldosterone and ACTH-cortisol control during acute hypoxemia and exercise in patients with COPD, 396
Respiration, Cheyne-Stokes, upper airway occlusion during sleep in patients with, 42
Respiratory
disorders, evaluation of impairment/disability secondary to (ATS statement), 1205
effects of volcanic ash from Mt. St. Helens, 526
effort, cautionary note on interpretation of power law for (commentary), 341
health of children in Hamilton, Ontario, three-year cohort study of role of environmental factors in, 987
illnesses in survivors of infant respiratory distress syndrome, 1011
survey of North American Indian children living in proximity to aluminum smelter, 307
variability during sleep, need for improving description of (correspondence), 707
Rhinitis, allergic, peripheral blood basophils, basophil progenitors, and nasal metachromatic cells in, 757
Rib cage motion and muscle use in high tetraplegics, 1115
Rifampin
bioavailability of, in two commercially available formulations designed for use in short-course treatment of tuberculosis, 1076
-induced release of hydrazine from isoniazid as possible case of hepatitis, 1072
isoniazid and hepatotoxicity (editorial), 963
Roentgenography, decubitus, versus chest ultrasonography, value of, for thoracentesis, 1124
Salbutamol, effects of, on diaphragmatic force during compensated metabolic acidosis, 407
Sarcoidosis
chemiluminescence of lung macrophages and blood leukocytes in, 298
lymphocyte phenotypes in bronchoalveolar lavage and lung tissue in, 855
pulmonary
function in children with, 94
helper T-lymphocytes in, 1086
Scintigraphy, indium-111 neutrophil, and assessment of pulmonary neutrophil kinetics in adult respiratory distress syndrome, 792
Serotonin-induced bronchoconstriction, effects of parasympathectomy on, in cat, 110
Serum
comparison of enzyme immunoassay, immunodiffusion, and complement fixation tests in detecting antibody in, to A antigen of *Blastomyces dermatitidis*, 144
markers of collagen biosynthesis as possible indicators of irreversible pulmonary impairment in farmer's lung, 88
Sheep
awake, influence of steroidal and nonsteroidal anti-inflammatory agents on accumulation of arachidonic acid metabolites in plasma and lung lymph after endotoxemia in, 55
erythrocytes, capacity of normal murine alveolar macrophages to function as antigen-presenting cells for initiation of primary antibody-forming cell responses to, 1097
reduction of total hemolytic complement activity with cobra venom factor does not prevent endotoxin-induced lung injury in, 62
thromboxane as mediator of pulmonary dysfunction during intravascular complement activation in, 269
tracing leukocyte marker protein in lung fluids and lung-draining lymph nodes during endotoxemia in, 866

Single-breath carbon monoxide diffusing capacity
and alveolar oxygen tension, relationship between, 676
and reference equations for (correspondence), 1210
Sleep (*See also* Apnea, sleep)
breathing during, in normal pregnant women, 38
-induced apneic threshold and its consequences (pulmonary perspective), 1163
need for improving description of respiratory variability during (correspondence), 707
upper airway occlusion during, in patients wth Cheyne-Stokes respiration, 42
Smoke
cigarette, genetically engineered, mutant alpha-1-proteinase inhibitor is more resistant than normal inhibitor to oxidative inactivation by, 353
-induced, cigarette, chemotactic activity of lung fluids, role of complement in, 478
Smokers
alveolar fenestrae in, and relationship with light microscopic and functional abnormalities, 126
cigarette, nonspecific airway reactivity in, 120
with idiopathic pulmonary fibrosis, bronchoalveolar lavage fluid neutrophils increase after corticosteroid therapy in, 104
Smoking
acute effect of, on elastaselike esterase activity and immunologic neutrophil elastase concentration in bronchoalveolar lavage fluid, 568
inhibits asbestos clearance, 372
passive
in childhood in Tecumseh, Michigan, 966
and lung cancer (editorial), 1, 959
should chest physicians be passive on (editorial), 4
Splenosis, thoracic, diagnosis of, by tru-cut needle biopsy (case report), 1199
Sputum
examination for diagnosis of *Pneumocystis carinii* pneumonia in AIDS, 226
IgA and elastase, influence of, on tracheal cell bacterial adherence, 255
induced, usefulness of, in diagnosis of *Pneumocystis carinii* pneumonia in patients with AIDS, 515
induction in AIDS (editorial), 513
Starvation, postnatal, and refeeding, effect of, on adult rat lung, 769
State of Art
Animal models of emphysema, 149
Drug-induced pulmonary disease. Part 1: cytotoxic drugs, 321
Drug-induced pulmonary disease. Part 2: noncytotoxic drugs, 488
Endotoxin and lung injury, 913
Mechanisms of hypoxic pulmonary vasoconstriction, 1186
Occupational asthma, 686
Sulfur
dioxide
-induced bronchoconstriction, inhibition of, in asthmatic subjects by cromolyn is dose dependent, 1150
interaction of cromolyn and muscarinic antagonist to inhibiting bronchial reactivity to, 1154
longitudinal evaluation of pulmonary function in copper smelter workers exposed to, 830
oxide, ambient, and suspended particles, effects of, on respiratory health of preadolescent children, 834
Surfactant, rat, colloidal gold immunoultrastructural localization of, 230
Syndrome
acquired immunodeficiency
pathology and treatment of interstitial pneumonitis in two infants with, 1196
sputum
examination for diagnosis of *Pneumocystis carinii* pneumonia in, 226
induction in (editorial), 513
usefulness of induced sputum in diagnosis of *Pneumocystis carinii* pneumonia in patients with, 515
adult respiratory distress
abnormal neutrophil-pulmonary interaction in, 792
assessment of lung injury in, using multiple indicator dilution curves, 1006
comparison of lung vascular and epithelial permeability indices in, 1002
indicators of risk, course, and prognosis in (correspondence), 343
lung neutrophils in, 218
occurrence of, in neutropenic patients (case report), 313
oxygen delivery and uptake in, 999
infant respiratory distress, respiratory illnesses in survivors of, 1011
T-cell proliferation, alveolar macrophage stimulation of, in autologous mixed lymphocyte reactions, 78
Tetraplegics, high, rib cage motion and muscle use in, 1115
Theophylline
and adenosine, comparative effects of, on respiratory skeletal and smooth muscle, 809
clearance in patients with severe COPD receiving supplemental oxygen and effect of acute hypoxemia, 1110
effects of, on isolated diaphragmatic fibers, 1060
therapeutic, relationship between pleural pressures and changes in pulmonary function after, 658
Thoracentesis, value of chest ultrasonography versus decubitus roentgenography for, 1124
Thoracic gas volume
can it be measured in infants with airway obstruction, 245
and more problems with Boyle's law (editorial), 184
Thromboxane
inhibitor dazmegrel does not reduce monocrotaline-induced pulmonary hypertension, 789
as mediator of pulmonary dysfunction during intravascular complement activation in sheep, 269
metabolites, measurements of, after endotoxemia in awake sheep, 55
Timolol and betaxolol, effect of topical ophthalmic instillation of, on lung function in asthmatic subjects, 264
Tissue, lung, lymphocyte phenotypes in, in sarcoidosis and idiopathic pulmonary fibrosis, 855
T-lymphocytes, helper, in pulmonary sarcoidosis, 1086
Tomography
computed, and pathologic correlation in diagnosis of emphysema, 541
positron emission, effect of regional lung injury or alveolar hypoxia on pulmonary blood flow and lung water measured by, 1037
Toxoplasmosis, pulmonary (pulmonary perspective), 704
*Trichosporon cutaneum* antigen, different classes of antibody activities to, in summer-type hypersensitivity pneumonitis by ELISA, 83
Tubercle bacillus, bronchoscopy and Bactec in efficient search for (editorial), 962
Tuberculosis
active, after isoniazid chemoprophylaxis of Southeast Asian refugees, 431
bioavailability of isoniazid, rifampin, and pyrazinamide in two commercially available combined formulations designed for use in short-course treatment of, 1076
bronchoscopy and Bactec for diagnosis of (editorial), 962
hazardous clinical judgment in (correspondence), 173
increased interleukin-1 production and monocyte suppressor cell activity associated with, 73
in physicians, a continuing problem, 773
pulmonary
effects of protein deprivation and BCG vaccination on alveolar macrophage function in, 1081
influence of initial drug resistance on response to short-

course chemotherapy of, 423
long-term follow-up of clinical trial of six-month and four-month regimens of chemotherapy in treatment of, 779
rifampin-induced release of hydrazine from isoniazid as possible cause of hepatitis during treatment of, with regimens containing isoniazid and rifampin, 1072
Ultrasonography, chest, versus decubitus roentgenography, value of, for thoracentesis, 1124
Vasoconstriction
glutathione redox cycle as defense system against, in rabbit lungs, 1029
hypoxic pulmonary, mechanisms of (state of art), 1186
Vasodilation, acetylcholine-induced pulmonary, in lung vascular injury, 197
Vasodilator therapy, chronic, noninvasive assessment of hemodynamic improvement during, in obliterative pulmonary hypertension, 380
Ventilation
constant flow, effect of flow rate on blood gases during, in dogs, 626
continuous mechanical, risk factors for pneumonia and fatality in patients receiving, 792
high frequency transthoracic, improves gas exchange during experimental bronchoconstriction in rabbits, 605
positive end-expiratory pressure, interpretation of pulmonary artery wedge pressure during, in dog, 1019
reversible depression of, by ventriculocisternal perfusion with gamma aminobutyric acid in dogs, 1024
Ventilatory
control
effects of combined morphine and prochlorperazine on, 558
in patients with COPD, effect of chlormadinone acetate on, 552
response to acute flow-resistive loads, role of endogenous opioids in, 26
Ventricular function, right, study of effects of low flow oxygen on oxygen delivery and, in chronic lung disease, 390
Verapamil, effects of, on asthmatic airway responses to muscarinic, histaminergic, and allergenic stimuli, 730
Virus infection, type C influenza, changes in bronchial reactivity to acetylcholine with, in dogs, 367
Volcanic ash from Mt. St. Helens, respiratory effects of, 526
Wittenoom Gorge, natural history of asbestosis in, from crocidolite workers of, 994
Workers
copper smelter, exposed to $SO_2$, longitudinal evaluation of pulmonary function in, 830
former crocidolite, of Wittenoom Gorge, natural history of asbestosis in, 994
polyurethane, modification of methacholine inhalation test and its epidemiologic use in, 600